

51

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11

**Offenlegungsschrift 26 50 226**

21

Aktenzeichen:

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Anmeldetag:

2. 11. 76

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Offenlegungstag:

11. 5. 78

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Unionspriorität:

32 33 31

54

Bezeichnung:

1,3,4-Triaminoisochinolin, dessen Herstellung sowie dieses enthaltende  
Haarfärbemittel

71

Anmelder:

Henkel KGaA, 4000 Düsseldorf

72

Erfinder:

Rose, David, Dipl.-Chem. Dr., 4020 Hilden

DE 2 50 226 A 1

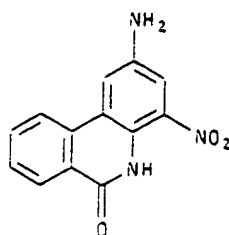
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Patentansprüche

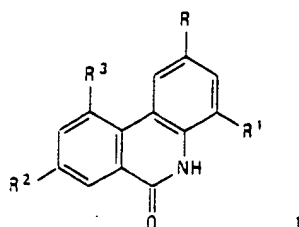
- (1) 1,3,4-Triaminoisochinolin.
2. Verfahren zur Herstellung von 1,3,4-Triaminoisochinolin, dadurch gekennzeichnet, daß man 1,3-Diamino-4-nitrosoisochinolin in Gegenwart von Palladium als Katalysator bei Raumtemperatur hydriert.
3. Haarfärbemittel auf Basis von Oxidationsfarbstoffen, gekennzeichnet durch einen Gehalt an 1,3,4-Triaminoisochinolin sowie dessen anorganischen oder organischen Salzen als Entwickler- und/oder Kupplersubstanz und gegebenenfalls den in Oxidationshaarfärben üblichen Kuppler- beziehungsweise Entwicklersubstanzen.
4. Haarfärbemittel nach Anspruch 3, gekennzeichnet durch einen Gehalt an einem Gemisch der Entwickler- und/oder Kupplersubstanzen.
5. Haarfärbemittel nach Anspruch 3 und 4, gekennzeichnet durch einen zusätzlichen Gehalt üblicher direktziehender Farbstoffe.
6. Haarfärbemittel nach Anspruch 3 - 5, gekennzeichnet durch einen Gehalt an Entwickler-Kuppler-Kombinationen in einer Menge von 0,5 bis 5 Gewichtsprozent, vorzugsweise 1 bis 3 Gewichtsprozent, bezogen auf das gesamte Haarfärbemittel.

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RN 23818-41-9 ZCAPLUS



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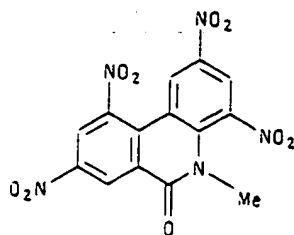


AB Nitration of phenanthridinone I ( $R-R^3 = H$ ) (II) by  $HNO_3$  (d. 1.4-1.42) or by  $HNO_3$  (d. 1.51)-AcOH gave mononitro derivs. I ( $R = NO_2$ ,  $R^1-R^3 = H$ ;  $R = R^2 = R^3 = H$ ,  $R^1 = NO_2$ ). Nitration of a mixt. of the above by  $HNO_3$  (d. 1.51) and AcOH or  $Ac_2O$  gave only the dinitro deriv. I ( $R = R^1 = NO_2$ ,  $R^2 = R^3 = H$ ). Nitration of II by  $HNO_3$  (d. 1.44-1.46) gave dinitro derivs. I ( $R = R^2 = NO_2$ ,  $R^1 = R^3 = H$ ;  $R = R^1 = NO_2$ ,  $R^2 = R^3 = H$ ;  $R = R^3 = H$ ,  $R^1 = R^2 = NO_2$ ). Similarly, II with  $HNO_3$  (d. 1.51) gave trinitro deriv. I ( $R = R^1 = R^2 = NO_2$ ,  $R^3 = H$ ); this nitrated with  $HNO_3-H_2SO_4$  gave tetranitro deriv. I ( $R-R^3 = NO_2$ ). Addnl. nitrated was the *N*-Me deriv. of I ( $R-R^3 = H$ ).

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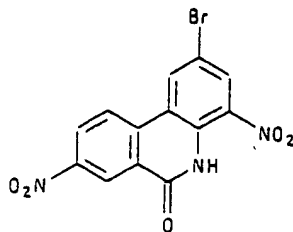
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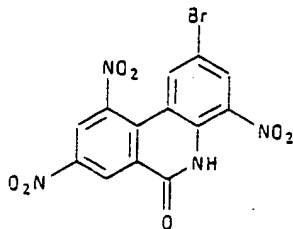
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CN 6(5H)-Phenanthridinone, 2-bromo-4,8-dinitro- (9CI) (CA INDEX NAME)



RN 102926-32-9 ZCAPLUS

CN 6(5H)-Phenanthridinone, 2-bromo-4,8,10-trinitro- (9CI) (CA INDEX NAME)



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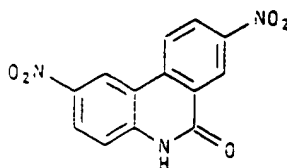
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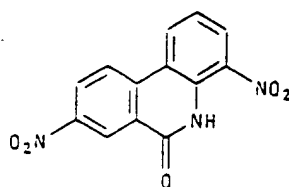
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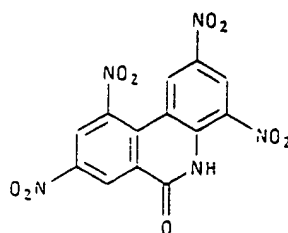
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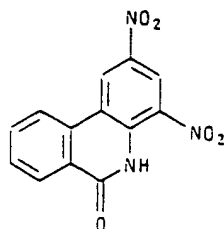
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RN 97136-58-8 ZCAPLUS

CN 6(5H)-Phenanthridinone, 2,4-dinitro- (9CI) (CA INDEX NAME)

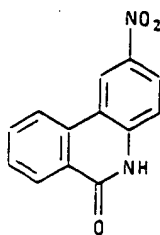


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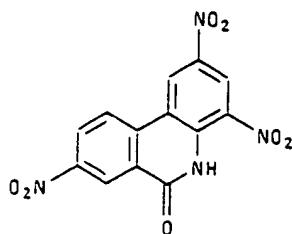
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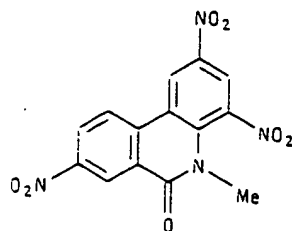
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CN 6(5H)-Phenanthridinone, 2,4,8-trinitro- (9CI) (CA INDEX NAME)



RN 102926-28-3 ZCAPLUS

CN 6(5H)-Phenanthridinone, 5-methyl-2,4,8-trinitro- (9CI) (CA INDEX NAME)



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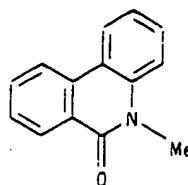
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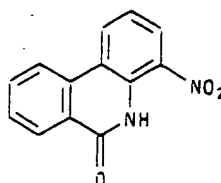
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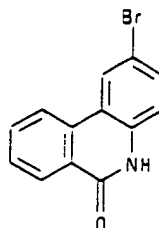
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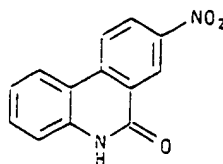
RN 27353-48-6 ZCAPLUS

CN 6(5*H*)-Phenanthridinone, 2-bromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 78255-99-9 ZCAPLUS

CN 6(5*H*)-Phenanthridinone, 8-nitro- (6CI, 9CI) (CA INDEX NAME)



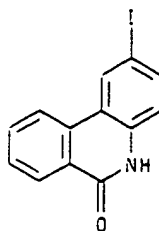
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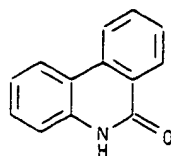
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AN 1986:460505 ZCAPLUS  
 DN 105:60505  
 TI Synthesis and structure of nitro-substituted 6(5H)-phenanthridinones  
 AU Andrievskii, A. M.; Poplavskii, A. N.; Dyumaev, K. M.; Bogachev, Yu. S.; Berestova, S. S.  
 CS Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR  
 SO Khim. Geterotsikl. Soedin. (1985), (8), 1106-13  
 CODEN: KGSSAQ; ISSN: 0453-8234  
 DT Journal  
 LA Russian  
 OS CASREACT 105:60505  
 IT 96462-23-6  
 (nitration of)  
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IT 1015-89-0  
 (nitration of, parameters of)  
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IT 4594-73-4P 23818-43-1P 27353-48-6P 78255-99-9P 78256-30-1P 78256-33-4P 102926-28-3  
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 (prepn. and nitration of)  
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